BRUHATH BANGALORE MAHANAGARA PALIKE

Name of work — **Improvements to Toilets in ward no 6 Thanisandra.**

Job code no-006-18-000026 — **Estimate cost : Rs 25.00 lakhs**

Sl No	Description of work	Measurements No	L	B	D	Qty	Unit	Rate	Ammount
1	KSSRB M2100-2.1 Earth work in Excavation for foundation of structures as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per MORTH specification No.304 B. in Ordinary soil upto 3m depth(By mechanical means)								
	all round (Kannada School)	1	27.20	0.75	0.90	18.36			
	Centre wall	1	3.60	0.75	0.90	2.43			
	For sump	1	2.40	2.40	1.80	10.37			
	For sanitary connection	1	10.00	0.45	1.00	4.50			
	all round (Urdhu School)	1	33.00	0.75	0.90	22.28			
	Centre wall	1	5.70	0.75	0.90	3.85			
	For sump	1	2.60	2.60	1.80	12.17			
	For sanitary connection	1	15.00	0.45	1.00	6.75			
	[P.No.216.No.27.4]					**80.70**	**cum**	**51.84**	**4183.41**
	Basic Rate 48.00								
	Add 8% 3.84								
	Total Rs 51.84								
2	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2.								
	all round (Kannada School)	1	27.20	0.75	0.15	3.06			
	Centre wall	1	3.60	0.75	0.15	0.41			
	for flooring	1	9.45	3.60	0.15	5.10			
	For sump	1	2.20	2.20	0.10	0.48			
	all round (Urdhu School)	1	33.00	0.75	0.15	3.71			
	Centre wall	1	5.70	0.75	0.15	0.64			
	for flooring	1	10.00	6.70	0.15	10.05			
	For sump	1	2.20	2.20	0.15	0.73			
	[P.No.12-1. No.4.2]					**24.18**	**cum**	**5449.68**	**131782.80**
	Basic Rate 5046.00								
	Add 8% 403.68								
	Total Rs 5449.68								
3	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness , including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 Pg No 15,Item No 4.31								
	For sump (kannada school)	4	1.80		1.80	12.96			
		4	1.80		1.80	12.96			
	For sump (urdhu school)	4	1.80		1.80	12.96			
		4	1.80		1.80	12.96			
	[P.No.151. No.4.31]					**51.84**	**sqm**	**316.44**	**16404.25**
	Basic Rate 293.00								
	Add 8% 23.44								
	Total Rs 316.44								
	KSRB 4-6.3 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness 200 mm including cost of all materials, labour complete as per specificaiton. Specification No. KBS 4.6.2 Pg No 15,Item No 4.18								

Sl No	Description of work		Measurements No	L	B	D	Qty	Unit	Rate	Ammount
4	**For sump (kannada school)**		4	1.80	1.80		12.96			
	For sump (urdhu school)		4	1.80	1.80		12.96			
	[P.No.15-1. No.4.18]						**25.92**	**sqm**	**338.04**	**8762.00**
	Basic Rate	313.00								
	Add 8%	25.04								
	Total Rs	338.04								
5	KSRB 4.2.8 : Providing and laying in position reinforced cementconcrete of design mix M25 with OPC cement @ 340kgs, with 20mmand down size graded granite metal coarse aggregates @0.7cum andfine aggregtes @ 0.47cum,with superplastisiser @3lts confirming toIS9103-1999 Reaffirmed2008, machine mixed, concrete laid in layers not exceeding 15 cms thick,vibrated fo all works in ground floor level for roof slabs ,staircase, lintels , beams, retaining walls ,return wall, walls (an thivck ness) including attached plasters ,columns, pillars,posts,struts.butters,string or lacing courses ,parapets,coping,bed blocks,anchor blocks ,plain window cills,fillets including cost of all materials, labour,HOM of machinery, curing, complete as per specifications.Specification No. KBS 4.1, 4.6,Pg No. 13 Item No. 4.12									
	For sump	Bottom slab	1	1.80	1.80	0.15	0.49			
	(kannada school)	Sump walls	2	1.80	0.15	1.8	0.97			
			2	1.80	0.15	1.8	0.97			
		Cover slab	1	1.80	1.80	0.15	0.49			
	For sump	Bottom slab	1	1.80	1.80	0.15	0.49			
	(urdhu school)	Sump walls	2	1.80	0.15	1.8	0.97			
			2	1.80	0.15	1.8	0.97			
		Cover slab	1	1.80	1.80	0.15	0.49			
	[P.No.13-1. No.4.12]						**5.83**	**cum**	**6650.64**	**38786.53**
	Basic Rate	6158.00								
	Add 8%	492.64								
	Total Rs	6650.64								
6	KSRB 4.9.2 : Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Pg No.17 Item No.4.46.2									
	For sump									
	consider 80kg/cum			5.83			0.47			
	[P.No.17-1. No.4.46.2]						**0.47**	**MT**	**60534.00**	**28242.74**
	Basic Rate	56050.00								
	Add 8%	4484.00								
	Total Rs	60534.00								
7	KSRB 12-6.1 : Providing 20mm square M.S footrest and fixing in manhole with M 10 cement concrete block of 20x20x10cms, using 20mm and down size metal of size including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS 12.4.6Pg No. 73 item no. 11.44									
	For sump (kannada school)	No.s	8				8.00			
	For sump (urdhu school)	No.s	8				8.00			
	[P.No.73. No.11.44]						**16.00**	**cum**	**265.68**	**4250.88**
	Basic Rate	246.00								
	Add 8%	19.68								
	Total Rs	265.68								
8	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13									
	all round (Kannada School)		1	27.20	0.60	0.90	14.69			
	Centre wall		1	3.60	0.60	0.90	1.94			
	all round (Urdhu School)		1	33.00	0.60	0.90	17.82			
	Centre wall		1	5.70	0.60	0.90	3.08			

Sl No	Description of work	Measurements No	L	B	D	Qty	Unit	Rate	Ammount
	[P.No.23-1. No.5.6]					**37.53**	**cum**	**4521.96**	**169709.16**
	Basic Rate 4187.00								
	Add 8% 334.96								
	Total Rs 4521.96								
9	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13								
	all round (Kannada School)	1	27.20	0.45	0.45	5.51			
	Centre wall	1	3.60	0.45	0.45	0.73			
	all round (urdhu school)	1	33.00	0.45	0.45	6.68			
	Centre wall	1	5.70	0.45	0.45	1.15			
	For chainlink fencing	1	15.00	0.45	0.60	4.05			
	[P.No.23-1. No.5.9]					**18.12**	**cum**	**5405.40**	**97966.12**
	Basic Rate 5005.00								
	Add 8% 400.4								
	Total Rs 5405.40								
10	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2.								
	all round (Kannada School)	1	27.20	0.45	0.10	1.22			
	Centre wall	1	3.60	0.45	0.10	0.16			
	all round (Urdhu School)	1	33.00	0.45	0.15	2.23			
	Centre wall	1	5.70	0.45	0.15	0.38			
	For chainlink fencing	1	15.00	0.45	0.10	0.68			
	Basic Rate 6011.00					**4.67**	**cum**	**6491.88**	**30338.18**
	Add 8% 480.88								
	Total Rs 6491.88								
11	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4								
	all round (Kannada School)	1	27.20		3.00	81.60			
	Centre wall	1	3.60		3.00	10.80			
						92.40			
	Deductions								
	Door	2	0.90		2.10	3.78			
	v	11	0.46		0.46	2.30			
					(-)	**6.08**			
	all round (Urdhu School)	1	33.00		3.00	99.00			
	Centre wall	1	5.70		3.00	17.10			
						116.10			
	Deductions								
	Door	2	0.90		2.10	3.78			
	v	11	0.46		0.46	2.30			
					(-)	**6.08**			
	[P.No.25-1.No.5.27.1]					**196.35**	**sqm**	**1011.96**	**198693.61**
	Basic Rate 937.00								
	Add 8% 74.96								
	Total Rs 1011.96								
	KSRB 5-28 : Providing and constructing nonload bearing wall with solid concrete blocks of size 400x100x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185:2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing hire charges of machineries etc.,complete as per specifications. KBS No.5.4								
	for toilet (kannada school)	1	13.87		2.28	31.62			
	for urinals	6	0.76		1.50	6.84			
						38.46			

Sl No	Description of work	Measurements No	L	B	D	Qty	Unit	Rate	Ammount
12	Deductions								
	Door	6	0.76		2.10	9.58			
					(-)	**9.58**			
	for toilet (urdhu school)	4	1.20		2.28	10.94			
	for toilet	6	1.40		2.28	19.15			
	for urinals	7	1.06		1.50	11.13			
	for urinals	6	1.00		1.50	9.00			
						50.23			
	Deductions								
	Door	6	0.76		2.10	9.58			
					(-)	**9.58**			
	[P.No.25-1.No.5.28]					**69.54**	**sqm**	**773.28**	**53772.04**
	Basic Rate 716.00								
	Add 8% 57.28								
	Total Rs 773.28								
13	KSRB 7.9 : Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications. Specification No. KBS 7.12.								
	V(kannada school)	11	0.46		0.46	**2.30**			
	[P.No.32-1.No.7.9]					2.30	**sqm**		
	V (urdhu school)	11	0.46		0.46	**2.30**			
	[P.No.32-1.No.7.9]					2.30	**sqm**		
	Basic Rate 78.00					**96.49**	**kg**	**84.24**	**8128.17**
	Add 8% 6.24								
	Total Rs 84.24								
14	KSRB 4-6.3: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness above 200 mm including cost of all materials, labour complete as per specificaiton. Specification No. KBS 4.6.2 P.NO.15.I.NO.4.30								
	(kannada school)								
	TOP COVERING SLABS	1	11.00	10.00		110.00			
	outer beams	2	10.00		0.45	9.00			
		2	10.00		0.45	9.00			
	Center beam	2	10.00		0.30	6.00			
	(urdhu school)								
	TOP COVERING SLABS	1	11.00	7.70		84.70			
	outer beams	2	10.00		0.45	9.00			
		2	6.70		0.45	6.03			
	Center beam	2	6.70		0.30	4.02			
	Basic 384.00					**237.75**	**sqm**	**414.72**	**98,599.68**
	add 8% Area weightage 30.72								
	Total 414.72								
15	KSRRB M 2300-2.1 : Plain/reinforcement Cement Concrete design mix M20 super structure with OPC cement @320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.46cum with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-1508 height upto 5 mtrs								
	(kannada school)		11.00	5.00	0.15	8.25			
	for beam	2	10.00	0.20	0.30	1.20			
	Pg 228 item no 29.3.1	3	3.60	0.20	0.30	0.65			
	Basic Rate 6724.00					**10.10**	**cum**	**7261.92**	**73330.868**
	Add 8% 537.92								
	Total Rs **7261.92**								
	(urdhu school)		11.00	7.70	0.15	12.71			

Sl No	Description of work			Measurements No	L	B	D	Qty	Unit	Rate	Ammount
			for beam	3	6.70	0.20	0.30	1.21			
				1	10.00	0.20	0.30	0.60			
				1	5.00	0.20	0.30	0.30			
	Pg 228 item no 29.3.1			1	6.00	0.20	0.30	0.36			
	Basic Rate	6724.00						**15.17**	**cum**	**7261.92**	**110170.588**
	Add 8%	537.92									
	Total Rs	**7261.92**									
16	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and I or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 TMT Bar Fe 500 P.NO.17.I.NO.4.46.2										
	consider 80kg/cum					10.10		0.81			
	consider 80kg/cum					15.17		1.21			
	Pg 17 item no 4.46.2							**2.02**	**MT**	**60534.00**	**122370.69**
	Basic Rate	56050.00									
	Add 8%	4484.00									
	Total Rs	**60534.00**									
17	KSRB 9-7.1 : Providing and fixing in position fully pannelled **mathi/Nandi wood** shutters for doors, styles and rails of 30mm. Thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) specification NO. KBS 9.34										
	D (kannada school)			2	0.90		2.10	3.78			
	D (urdhu school)			2	0.90		2.10	3.78			
	[P.No.52-1.No.9.25]							**7.56**	**Sqm**	**2852.28**	**21563.24**
	Basic Rate	2641.00									
	Add 8%	211.28									
	Total Rs	**2852.28**									
18	PVC DOOR Shutter : Supply and fixing of doors shuttersmade of rigid PVC extruded hollow section of 20mm X 200mm with the wall thickness of 1.0mm + /0.1mm equally divided into 4nos with tongue and groove locking arrangements. The shutter frame is made of 58*24 mm with the wall thickness of 1.5mm+/-0.15mm section metricut and joined at 4 corners with 125mmX225mm plastic brackets. The shitter shall be horizontally reinforced with 2nos of 8mm PVC rods. Teak wood battons shall be reinforced inside the door shutter during the fabrication of the door shutter at those points wherever the hardware is fixed on to the door shutter.										
	D1 (kannada school)			6	0.76		2.10	**9.58**			
	D1 (urdhu school)			6	0.76		2.10	**9.58**			
	[P.No.58-1.No.9.86]							**19.15**	**sqm**	**1900.80**	**36404.12**
	Basic Rate	1760.00									
	Add 8%	140.80									
	Total Rs	1900.80									
19	KSRB15-3.10 : Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.										
	Outside Plastering (kannada school)			2	10.00		3.96	**79.20**			
				2	4.00		3.96	**31.68**			
								110.88			
	Deduct :										
	Door			2	0.90		2.10	**3.78**			
	V			11	0.46		0.46	**2.3276**			
							(-)	**6.1076**			
	Outside Plastering (urdhu school)			1	10.00		3.96	39.60			
				1	6.70		3.96	26.53			
				1	5.10		3.96	20.20			
				1	4.80		3.96	19.01			

Sl No	Description of work	Measurements No	L	B	D	Qty	Unit	Rate	Ammount
		1	5.60		3.96	22.18			
						127.51			
	Deduct :								
	Door	2	0.90		2.10	**3.78**			
	V	11	0.46		0.46	**2.3276**			
					(-)	**6.1076**			
	[P.No.114-1.No.15.18]					**226.18**	**sqm**	**279.72**	**63266.17**
	Basic Rate 259.00								
	Add 8% 20.72								
	Total Rs 279.72								
	KSRB15-3.10 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.								
	Inside Plastering (kannada school)\	2	10.00		3.30	66.00			
		4	4.00		3.30	52.80			
	Celing plastering	1	9.45	3.65		34.49			
	for toilet	4*2	2.80		2.18	48.83			
	for toilet	2*2	1.49		2.18	12.99			
	for urinals	6*2	0.81		1.57	15.26			
						230.38			
	Deduct :								
	D1	6	0.76		2.10	**9.58**			
					(-)	**9.58**			
20	Inside Plastering	1	10.00		3.30	33.00			
		1	6.70		3.30	22.11			
		1	5.10		3.30	16.83			
		1	4.80		3.30	15.84			
		1	5.60		3.30	18.48			
	Celing plastering (Urdhu school)	1	9.40	6.30		59.22			
	for toilet	4*2	1.20		2.18	20.93			
	for toilet	6*2	1.47		2.18	38.46			
	for urinals	8*2	1.16		1.57	29.14			
	for urinals	6*2	0.76		1.57	14.32			
						268.32			
	Deduct :								
	D1	6	0.76		2.10	**9.58**			
					(-)	**9.58**			
	[P.No.114-1.No.15.21]					**479.55**	**sqm**	**208.44**	**99956.67**
	Basic Rate 193.00								
	Add 8% 15.44								
	Total Rs 208.44								
21	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications.								
	[P.No.118-1.No.15.54.2]					**226.18**	**sqm**	**45.36**	**10259.38**
	Basic Rate 42.00								
	Add 8% 3.36								
	Total Rs 45.36								
22	KSRB 14.14-5 : Providing ceramic tiles of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications. ceramic tiles 400X400X20mm								
	Toilet flooring (kannada school)	6	1.20	1.50		10.80			
	Urianls area	3	0.90	0.80		2.16			
	Urianls area	3	0.81	0.80		1.94			
	Common area	1	1.50	10.00		15.00			
	Toilet flooring (urdhu school)	6	1.20	1.50		10.80			
	Common area	1	5.00	4.70		23.50			
	Common area	1	5.00	3.90		19.50			
	[P.No.106-1.No.14.36.3]					**83.70**	**Sqm**	**1272.24**	**106491.58**
	Basic Rate 1178.00								
	Add 8% 94.24								
	Total Rs **1272.24**								

Sl No	Description of work	Measurements No	L	B	D	Qty	Unit	Rate	Ammount
23	KSRB 14.14-5 : Providing ceramic tiles of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications. ceramic tiles 15X15cms 6mm thick								
	Toilet wall (kannada school)	6	4.72		1.50	42.48			
	Urianls wall	3	2.43		1.50	10.94			
	Urianls wall	3	2.33		1.50	10.49			
	Wash basin area	4	1.50		1.50	9.00			
	Toilet wall (Urdhu school)	6	4.62		1.50	41.58			
	Urianls wall	6	2.74		1.50	24.66			
	Urianls wall	5	2.33		1.50	17.48			
	Wash basin area	4	1.50		1.50	9.00			
	[P.No.106-1.No.14.36.1]					**165.62**	**Sqm**	**999.00**	**165449.39**
	Basic Rate 925.00								
	Add 8% 74.00								
	Total Rs **999.00**								
24	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (internal work exposed on wall) - 25mm nominal OD pipes.								
	20mm dia CPVC pipe (kannada school)	1	30.00			**30.00**			
	20mm dia CPVC pipe (urdhu school)	1	30.00			**30.00**			
	[P.No.97-1.No.13.87.2]					**60.00**	**mtr**	**135.00**	**8100.00**
	Basic Rate 125.00								
	Add 8% 10.00								
	Total Rs 135.00								
	25mm dia CPVC pipe (kannada school)	1	20.00			**20.00**			
	25mm dia CPVC pipe (urdhu school)	1	25.00			**25.00**			
	[P.No.97-1.No.13.87.3]					**45.00**	**mtr**	**178.20**	**8019.00**
	Basic Rate 165.00								
	Add 8% 13.20								
	Total Rs 178.20								
	32mm dia CPVC pipe (kannada school)	1	20.00			**20.00**			
	32mm dia CPVC pipe (urdhu school)	1	25.00			**25.00**			
	[P.No.97-1.No.13.87.4]					**45.00**	**mtr**	**232.20**	**10449.00**
	Basic Rate 215.00								
	Add 8% 17.20								
	Total Rs 232.20								
25	Providing and fixing unplasticised PVC pipes 10.00kg/sq.cm working pressure chemp plast/wavin or equivalent make with pipe fittings, clips, making good the floor, including cost of all materials, labour charges, HOM of equipment and testing complete as per specifications.								
	160mm dia PVC pipes (kannada school)	1	30			**30.00**			
	160mm dia PVC pipes (urdhu school)	1	30			**30.00**			
	[P.No.75-1.No.11.56.4]					**60.00**	**mtr**	**1566.00**	**93960.00**
	Basic Rate 1450.00								
	Add 8% 116.00								
	Total Rs 1566.00								
26	KSRB 11-15.2 : Providing and fixing 450mm dia circular shape mirror with plastic moulded frame of approved make and shade with 6mm thick hard board backing including cost of materials, labour complete as per specifications.								
	(kannada school)					**1.00**			
	(urdhu school)					**1.00**			
	[P.No.82-1.No.12.40]					**2.00**	**unit**	**935.28**	**1870.56**
	Basic Rate 866.00								
	Add 8% 69.28								
	Total Rs 935.28								
27	Providing white vitreous china clay indian pattern squatting urinals with white glazed foot rests of approved quality and make conforming to ISI specifications and fixing in position with M-15 as directed of size 50.8 cms X 38 cms X 10.16 CMS - A grade(Rate includes cost of all materials, and conveyance to work spot).								
	(kannada school)					**3.00**			
	(urdhu school)					**5.00**			
	[P.No.88-1.No.12.110]					**8.00**	**each**	**1047.60**	**8380.80**

Sl No	Description of work		Measurements No	L	B	D	Qty	Unit	Rate	Ammount
	Basic Rate	970.00								
	Add 8%	77.60								
	Total Rs	1047.60								
28	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot).									
	12.5cmx7.5cm (kannada school)						4.00			
	12.5cmx7.5cm (urdhu school)						4.00			
	[P.No.88-1.No.12.113.2]						8.00	each	307.80	2462.40
	Basic Rate	285.00								
	Add 8%	22.80								
	Total Rs	307.80								
29	KSRB13-6.1-1 : Providing and fixing in position brass bib cock of approved quality 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3									
	(kannada school)						10.00			
	(urdhu school)						10.00			
	[P.No.91-1.No.13.23]						20.00	each	249.48	4989.60
	Basic Rate	231.00								
	Add 8%	18.48								
	Total Rs	249.48								
30	KSRB13-6.3-1 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.6 / 13.3									
	32mm dia nominal (kannada school)						1.00			
	32mm dia nominal (Urdhu school)						1.00			
	[P.No.92-1.No.13.35]						2.00	each	1050.84	2101.68
	Basic Rate	973.00								
	Add 8%	77.84								
	Total Rs	1050.84								
	25mm dia nominal (kannada school)						2.00			
	25mm dia nominal (Urdhu school)						2.00			
	[P.No.91-1.No.13.4]						4.00	each	648.00	2592.00
	Basic Rate	600.00								
	Add 8%	48.00								
	Total Rs	648.00								
31	KSRB 12-8.1 : Constructing brick masonry inspection chamber 455x610mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications.									
	(kannada school)						2.00			
	(urdhu school)						2.00			
	[P.No.73-1.No.11.50]						4.00	No's	7604.28	30417.12
	Basic Rate	7041.00								
	Add 8%	563.28								
	Total Rs	7604.28								
32	KSRB 11-3 : Providing and fixing white vitreous china clay, water closet Indian type (Squatting pan) of size 580mm with footrests, 100mm S or P trap, (approved make) cutting and making good the wall and floor wherever required, including cost of materials, labour specification NO. KBS 11									
	(kannada school)						4.00			
	(urdhu school)						4.00			
	[P.No.77-1.No.12.3]						8.00	No's	1381.32	11050.56
	Basic Rate	1279.00								
	Add 8%	102.32								
	Total Rs	1381.32								

Sl No	Description of work	Measurements No	L	B	D	Qty	Unit	Rate	Ammount
33	KSRB 11-5 : Providing and fixing white vitreous china clay, water closet European type (Pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I/M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, including cost of materials, labour complete as per specification.								
	(kannada school)					**2.00**			
	(urdhu school)					**2.00**			
	[P.No.77-1.No.12.5]					**4.00**	**each**	**5540.40**	**22161.60**
	Basic Rate 5130.00								
	Add 8% 410.40								
	Total Rs 5540.40								
34	KSRB 11-11.1 : Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11								
	(kannada school)					**4.00**			
	(urdhu school)					**4.00**			
	[P.No.80-1.No.12.23]					**8.00**	**No's**	**4196.88**	**33575.04**
	Basic Rate 3886.00								
	Add 8% 310.88								
	Total Rs 4196.88								
35	KSRB 13-11.1 : Providing and placing on terrace, polyethylene water storage tanks as per IS 12701 : 1996 with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications. (For 1000 litre capacity)								
	[P.No.94-1.No.13.78] (kannada school)					**1.00**	**No's**	**9144.36**	**9144.36**
	[P.No.94-1.No.13.78] (Urdhu school)					**1.00**	**No's**	**9144.36**	**9144.36**
	Basic Rate 8467.00								
	Add 8% 677.36								
	Total Rs 9144.36								
36	Providing and finishing external walls in two coats over one coat of 100% acrylic silicon glazed primer with antifungal paint for top coat of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications.								
	[P.No.125-1.No.15.104]					**226.18**	**Sqm**	**163.08**	**36884.91**
	Basic Rate 151.00								
	Add 8% 12.08								
	Total Rs 163.08								
37	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per specification. Area to be considered (a)100% for fresh surface. (b) Upto 10% for repainting								
	[P.No.126-1.No.15.106]					**313.93**	**Sqm**	**60.48**	**18986.58**
	Basic Rate 56.00								
	Add 8% 4.48								
	Total Rs 60.48								
38	Providing and applying water proofing to roof slab, terraces, landscape area, podium etc., using modified polyurethane cures (conforming to ASTM C836-84) to give a tough elastomeric waterproof membrane on the surface. The surface shall be cleaned free from dust and other particle before usage.								
	[P.No.271-1.No.38.2] (kannada school)		1	10.00	4.00	40.00			
	[P.No.271-1.No.38.2] (Urdhu school)		1	10.00	6.70	67.00			
	Basic Rate 700.00					**107.00**	**Sqm**	**756.00**	**80892.00**
	Add 8% 56.00								
	Total Rs 756.00								
	1.0HP/75 K W Pump								

Sl No	Description of work			Measurements No	L	B	D	Qty	Unit	Rate	Ammount
39	[P.No.126-1.No.15.106] (kannada school)							1.00	No's	17724.00	17724.00
	[P.No.126-1.No.15.106] (Urdhu school)							1.00	No's	17724.00	17724.00
	Basic Rate	16800.00									
	Add 5.5%	924.00									
	Total Rs	17724.00									
40	Supplying ,fixing, wiring, earth electrode for grounding conduits, I,C. cutours and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit ..The pit should be filled with equal proportion of salt and charcoal 150mm alround the pipe to complete depth.the connection from the pipe to the conduit ctc,is to be established through DI wire of size as per ISI Specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and checknuts etc, the pipe shall have 16 through holes of 122mm dia										
	(kannada school)			1				1.00	No's	2727.00	2727.00
	(urdhu school)			1				1.00	No's	2727.00	2727.00
41	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade,multistrand copper with low conducter resistence single core wire in open or consealed system of wiring with specifed IS-694:1990 & confirming to GTP of Group A 3) 2.5 Sqmm										
	(kannada school)			1	55.00			55.00	mtr	29.20	1606.00
	(urdhu school)			1	110.00			110.00	mtr	29.20	3212.00
42	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade,multistrand copper with low conducter resistence single core wire in open or consealed system of wiring with specifed IS-694:1990 & confirming to GTP of Group A 3)										
	(kannada school)			1	10.00			10.00	mtr	180.00	1800.00
	(urdhu school)			1	20.00			20.00	mtr	180.00	3600.00
43	Underground stone ware pipes										
	(kannada school)			1	10.00			10.00	mtr	564.84	5648.40
	(urdhu school)			1	20.00			20.00	mtr	564.84	11296.80
	[P.No.70.10-1.No.11.40]										
	Basic Rate	523.00									
	Add 8%	41.84									
	Total Rs	564.84									
44	KSRB 14.6-1: Providing and laying heavy duty cobble stones 75mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS P.NO.101.I.NO.14.7										
	(kannada school)			2	4.00		2.00	16.00	Sqm	1028.20	16451.20
	[P.No.70.10-1.No.11.40]										
	Basic Rate	970.00									
	Add 6%	58.20									
	Total Rs	1028.20									
44	Supplying and fixing M.S rectangular poles made out of two equal angles of 65X65X6 mm welded together and fixed in CC 1:2:4 with two numbers 16mm dia M.S hold fast rods each of length 25cms including cost of all materials cutting, bending scaffolding whereever necessary, nicely finishing the welded jonts with all lead lift and as per the direction of engineer incharge of the work and including providing two coats of approved quality paint over coat of shop painting (excluding cost of earthwork and concrete)(PWD SR 2016-17 Pg 262 & Item no 37.2)										
	(urdhu school)			1	6.00		3.10	18.60	mtr	884.52	16452.07
	[P.No.262-1.No.37.20]										
	Basic Rate	819.00									
	Add 8%	65.52									
	Total Rs	884.52									

Sl No	Description of work	Measurements No	L	B	D	Qty	Unit	Rate	Ammount
45	Providing chain link fencing 50mm size of 8 guage properly stretched between rectangularpoleas and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour lead and lift and as per the directions of the engineer incharge of work including two coats of approved quality paint over one coat of shop paint (PWD SR 2016-17 Pg 262 & Item no 37.3)								
	(urdhu school)	1	15.00		2.50	37.50	Sqm	711.72	26689.50
	[P.No.262-1.No.37.30]								
	Basic Rate 659.00								
	Add 8% 52.72								
	Total Rs 711.72								
46	Providing and fixing M.S block pipe of 38mm dia of heavy guage of 14 including removing the bends, cutting the pipes and fixing pipe in between the two vertical poles (M.S rectangular poles) and spot welding the chain link with M.S block pipe including cost of all materials wastage in cutting and scaffolding wherever necessary with all lead and lift as directed by the engineer in charge of work etc, complete including two coats of approved quality paint over one coat of shop paint (PWD SR 2016-17 Pg 262 & Item no 37.4)								
	(urdhu school)	4	15.00			60.00	Sqm	349.92	20995.20
	[P.No.262-1.No.37.40]								
	Basic Rate 324.00								
	Add 8% 25.92								
	Total Rs 349.92								
47	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH -100/ Chapter 1 Disposing of the excavated materials to a distance of 15.00kms by mechanical means								
	Qty vide above Item No.2					80.70			
	[P.No.134-1.No.17.1] & [P.No.139]					80.70	cum	116.00	9361.03
	Loadind and unloading BR=Rs.68.00.(P-134, I.No.17.1)								
	Cost of haulage BR=Rs.2.50 T.Km.(P-134, I.No.17.1)								
	(P-139)=2.50x1.28x15km=48.00+68.00=116.00/cum								
		Total Rs.				_	_	_	2252078.03
		Add 11% KRIDL Charges				_	_	_	247728.58
		For Miscellaneous & Rounding off				_	_	_	193.39
		GRAND TOTAL				_	_	_	2500000.00

ADMINISTRATIVE APPROVAL
Accorded For Rs. Twenty Five lakhs only
Head of A/c P-3294
Div. Ref. No. 159/A-18 Date 12/01/18
AE
EE(BTP)

Certificate:

1. Certified that the work spot has been inspected by me and the work is necessary & site condition.
2. Certified that the work is no split.
3 Certified that the estimate is based on PW, P&IWTD South Zone Bangalore SR of 2016-17.
4. Certified that Adequate & necessary provisions have made in the estimate.
5. Certified that the above area comes under BBMP limit.

Asst Engineer
YELAHANKA ZONE

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

Asst Executive Engineer
YELAHANKA ZONE

Executive Engineer
YELAHANKA ZONE

Technical Sanction
Accorded For 25.00 lakh Rs.
Head of A/C P3294
CER NO : 537 (537) Dt: 12.01.18

TA

CE (YNK)